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HYBRID HYDROGEN STORAGE CONTAINER AND METHOD OF STORING HYDROGEN IN CONTAINER

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- international:

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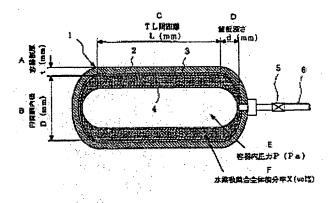
- european:

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Abstract of WO03064916

A hybrid hydrogen storage container and a method of storing hydrogen in the container, the container comprising a pressure vessel (1) allowed to fill hydrogen therein at a pressure of 30 MPa or higher and having a reinforced layer (2) and a liner layer (3), the pressure vessel (1) further comprising, therein, a hydrogen occlusion body and a carrier (4) for supporting the hydrogen occlusion body, wherein the maximum hydrogen occlusion amount (alpham) of the hydrogen occlusion body per unit volume is alpham >= 100 (kg/m3) and volume ratio (X) of the hydrogen occlusion body to the inside volume of the pressure vessel (1) is $5(\%) \le X \le 20(\%)$, where X = 100 Vm/Vi (%), Vi: inside volume (L) of pressure vessel, Vm: volume (L) of hydrogen occlusion body in pressure vessel.



- A...VESSEL PLATE THICKNESS
- B. CYLINDRICAL SHELL INNER DIAMETER
- C. DISTANCE BETWEEN TL D. END PLATE DEPTH
- E. VESSEL INNER PRESSURE P
- F. HYDROGEN OCCLUSION ALLOY VOLUME RATIO X

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